

Enable-IT 890 Series Extended Ethernet User Manual



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ABOUT THIS GUIDE

This guide provides all the information needed to install and use the Enable-IT 890 Extended Ethernet Kit. This guide is intended for use by technicians who are responsible for installing and setting up network equipment. Consequently, it is assumed that the installer has a basic working knowledge of LANs (Local Area Networks) and voice telecom wiring.

If the information in the release notes that are shipped with your product differs from the information in this guide, follow the instructions in the release notes.

Most user guides and release notes are available in Adobe Acrobat

Reader Portable Document Format (PDF) or HTML on the Enable-IT World Wide Web site: [http://www.ethernetextender.com/manuals/890 Manual.pdf](http://www.ethernetextender.com/manuals/890%20Manual.pdf)

INTRODUCING THE 890 EXTENDED ETHERNET KIT

Congratulations on purchasing the Enable-IT's 890 Extended Ethernet Kit — the simplest method to stretch your broadband solutions for in-building deployment in commercial office buildings, hotels, and multi-tenant residential units.

The 890 Extended Ethernet Kit offers the Lowest Cost Solution in a simple design for rapid install using existing 1 pair Telco wiring.

This chapter contains introductory information about The 890 Extended Ethernet Kit and how it can be used in your network. It covers the following topics:

- About the 890 Extended Ethernet Kit
- Key Benefits
- Summary of Features
- Typical Applications

About the 890 Extended Ethernet Kit

The 890 Extended Ethernet Kit solves the problem of high costs associated with stretching your backbone with traditional fiber or a series of hubs/repeaters.

In many office buildings, preferred network access is a dedicated Ethernet line, however Ethernet over twisted pair wiring has its distance limitations of just 325 ft. In order to drive Ethernet signal further, one would have to add repeaters to each segment of 325ft twisted pair cabling; this is often insufficient and too costly in multi-story buildings. Fortunately, the Enable-IT 890 Series Extended Ethernet can push the reach of Ethernet to more than (15) fifteen times the typical Ethernet distance over a 1-pair Telco wiring infrastructure.

A simple design methodology would be to think of the 890 extending a standard Ethernet line up to 6,000' (1,829m) and can also include a PABX voice line simultaneously.

To increase the durability and extended use of the product providing maximum future technology protection, 890 Extended Ethernet Kit meets the challenge of modern switched LANs and allows you to add features and capacity as your network expands.

The Enable-IT 890 Extended Ethernet has been tested to provide full duplex transport up to 25MB/s over CAT2, and up to CAT5e cabling. Real time throughput depends on your wire type, wire distance and your connected equipment.

Unit Model	Wiring	LAN Data Rate	Max. Distance
890	(1) pair CAT 2 up to CAT5e	100Mbps FD	6,000ft / 1,829m

Key Benefits

The following list identifies the 890 Extended Ethernet Kit key benefits.

- Dramatic cost reduction over any competing technology.
- Broadband technology that delivers in-building Ethernet access over 1 pair of existing Category 2 up to Category 5e wiring up to 6,000', whether spare or actively in use for analog or digital voice. This means no new wiring is required.
- Provides one scalable infrastructure for Internet access, POTS, VoIP, video, and virtual private networking.
- Rapid installation with small box profile, no programming and no firmware to upgrade.
- Low profile box with POTS line and single 10/100MB RJ-45 Ethernet port.

Summary of Features

The Enable-890 Extended Ethernet Kit has the following hardware features:

- 1 Extended Ethernet line over existing CAT 2 (Telco) up to CAT5e wiring
- Uses RJ-11 Telco style patch cord for 1-pair transport (pins 2 & 3)
- Rapid Telco style installation – no programming required
- Supports digital VoD channels
- Drives Ethernet 10/100 Mbps full-duplex service delivery up to 6,000ft / 1,829m
- Network Equipment independence – Transparent to protocols/applications/MAC
- Maintains lifeline POTS

Specifications:

Power Indicator
10/100Mbps Link status/Activity
Full Duplex/Half Duplex status/Collisions
VDSL Link Status/Activity

Interfaces

(1) 5v DC power Adapter
(1) RJ-11 POTS (Pins 2 & 3)
(1) RJ-45 10/100MB LAN Auto negotiate

Functionality:

LAN Data Rates 10/100Mbps Full Duplex
Protocol independent

Dimensions:

Height: 1" (26mm)
Depth: 4" (101mm)
Width: 6" (152mm)

Environment

Operating temp: 0° to 50°C/32° - 122°F
Storage temp: -25° to 60°C/-13° - 140°F
Humidity 5% to 95%, non-condensing

Typical Applications

Enable-IT 890 Extended Ethernet Units are usually installed into telephone wiring infrastructures where extension of backbone services is required and expensive fiber options are prohibitive. The 890 Extended Ethernet Kits allow a standard Ethernet segment to be deployed quickly over existing 1 pair Telco Copper Wiring in combination with existing POTS voice signals. The innermost pins (2 & 3) are used for transport for both voice and data. The pins (2 & 3) are flipped in straight through cabling. Using the provided telephone patch cords, this flip is already performed.

Installers have the convenience of a 10/100Mbps LAN Ethernet Kit for peace of mind connectivity and no CPE maintenance. Rapid installation allows for minimal interruption and the Broadband technology allows for investment protection up to 10 -15 years with no firmware or replacement issues. Bandwidth can be scaled according to the Broadband Access Provider needs. The 890 Extended Ethernet kit is a passive device so interruption of Internet service does not affect POTS services. Carriers and Access Providers can come and go, but the 890 Extended Ethernet VDSL technologies continue to provide lasting value such as the other utilities like Water, gas and electricity.

The Enable-890 Extended Ethernet Kit is suited for the following key environments:

- **Commercial Buildings (Multi-Tenant Units)**
- **Business Parks (Multi-Tenant Units)**
- **Apartments (Multi-Residential Units)**
- **Hotels (Multi-Hospitality Units)**
- **Business Suites (Multi-Hospitality Units)**
- **School Campuses (University, K-12)**
- **College Housing (Multi-Residential Units)**
- **Mining Operations – Quarries, Mine shafts**
- **Nautical Infrastructure – Cruise ships, Marinas, dive operations, subs**
- **Video Surveillance/Security**
- **WiFi Deployment – ISP's, RV Parks, Construction sites**
- **Manufacturing – Foundries, pharmaceutical, aerospace, automotive, petroleum, concrete plants, etc.**
- **Retail POS – Department stores, Bars, restaurants, retail spaces**
- **Government – Naval ships, FEMA, Housing, USGS, National Parks, Forestry, Research stations, NASA, utilities, etc.**
- **Education – outdoor camps, college campuses**
- **Healthcare – Hospitals, elder care, outpatient facilities**
- **Entertainment – Movie theaters, home entertainment, fairs, outdoor venues**

INSTALLING THE 890 EXTENDED ETHERNET UNITS

The Enable-IT 890 Extended Ethernet Kits have a distance restriction of 6,000ft or 1,829m over 1-pair of Category 2 up to Category 5e wiring from device extension to device extension. Therefore quick, simple site surveys and installation planning are highly recommended.

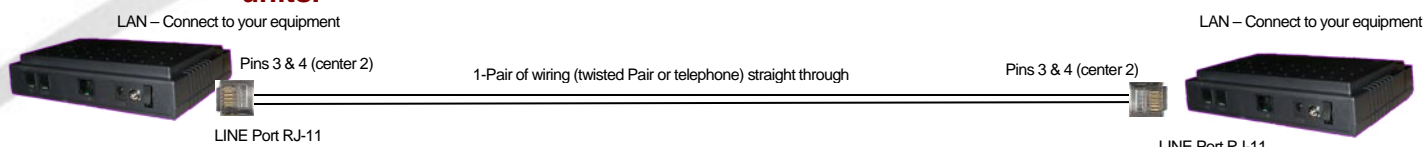
This chapter describes the recommended installation process for the Enable-IT 890 Extended Ethernet Units. It covers the following topics:

- Site Plan – Installation Design Considerations
- Unpacking the Enable-IT 890 Extended Ethernet Units
- Performing the On-Site Installation

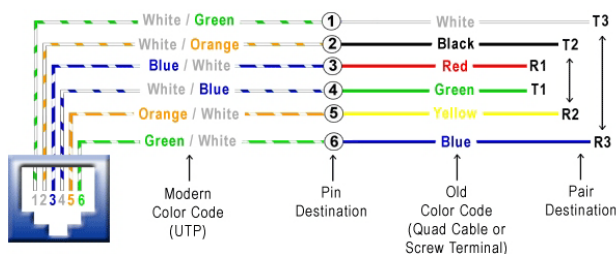
Site Plan - Installation Design Considerations

The planning process should involve a site walkthrough and discovery survey. Electrical Cable measurement tools are the most reliable method to determine the longest run of hidden wiring. Estimate the best locations to position the Broadband Concentrators to adequately reach desired connectivity on each floor. Document your findings to use in designing a network topology to support the Ethernet Switches and backbone connectivity. Key points to remember in the Site Survey.

- Total distance limitation of 6,000ft over CAT2 up to CAT5e wiring from end to end.
- 1 Pair CAT-2 Telco wiring .30 Gage or better cabling is required for transmission.
- **We highly recommend a quick test to ensure the working order of you 890 units. To do this, please use one of the telephone patch cords provided and attach each end to the LINE port on the 890 units. Power up until you see a Green SYNC light on each unit. This confirms proper operation of the units.**



Note: The innermost pins (3 & 4) are used for transport for both voice and data. The 890's perform an automatic flip of the pins if needed as long as you use the same wire pair on each end of the run. The provided telephone patch cord can be used for your test and understanding of the wiring pins. If you already have terminated CAT rated wiring you can use 1-pair by making an adapter cable. Using the provided telephone patch cord, cut (1) RJ-11 head off and replace with a Male RJ-45 head using the inside pins (4 & 5) on the RJ-45 Plug. Repeat for the remote end telephone patch cord. Otherwise crimp a blank RJ-11 male head (pins 3 & 4) to 1-pair of your existing CAT rated cabling on each end and insert directly into the LINE port of the 890 unit.



RJ-11 & RJ-12 Male Head Pinouts

Unpacking the Enable-IT 890 Extended Ethernet Kit

Carefully remove the Enable-IT 890 Extended Ethernet Units all packing materials from the box. Verify that the items listed below are present. Make sure that the equipment supplied matches what you ordered. If any items are missing or damaged, please contact your Enable-IT or your distributor for assistance.

- (2) The Enable-IT 890 Extended Ethernet Units
 - 5v DC Power adapter
 - 5' Telephone patch cable
 - 5' LAN patch cable
- Enable-IT 890 Extended Ethernet Kit User Manual (this manual)

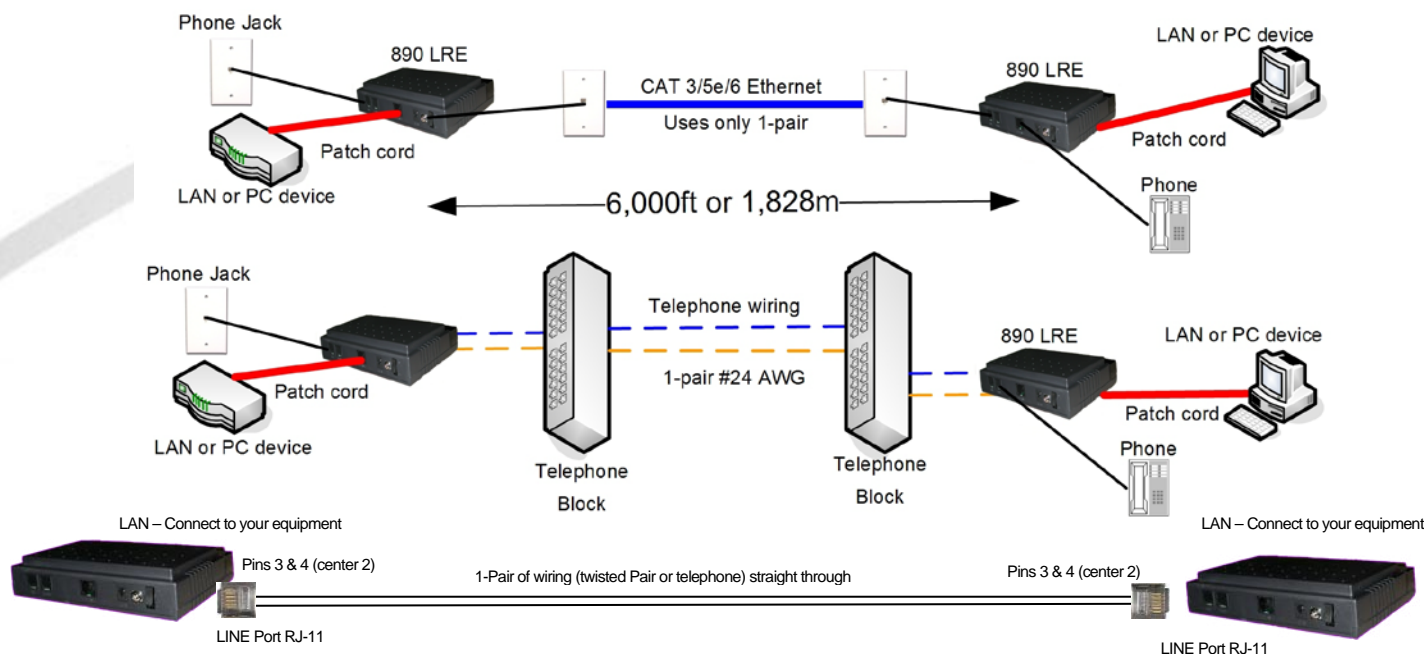


Performing the On-Site Installation

After removing the Enable-IT 890 Extended Ethernet Units from the box all that remains to install the unit on-site is to mount the unit, connect the wiring, cross connect voice lines if needed and attach the end device patch cord cabling.

Mounting the Enable-IT 890 Extended Ethernet Units

The Enable-IT 890 Extended Ethernet Units are designed for quick wall mounting.



Choose a location to mount each of the Enable-IT 890's where the maximum distance does not exceed 6,000ft or 1,829m total between devices to be connected.

When wall-mounting the Enable-IT 890 Extended Ethernet Unit it is recommended that you use the appropriate screw anchors for your mounting surface. If mounting on existing plywood use wood screws; if mounting onto drywall or sheetrock, use plastic drywall anchors to secure your installation.

- ❶ Prior to performing a remote link install, test your setup and equipment. Connect your LAN to the Ethernet port of the primary 890 unit and power adapter. Using the provided telephone patch cord, connect each end of the cord into the Line port on both 890 units. Connect your remote end device to the Ethernet port of the remote 890 unit and power adapter. Power on all equipment and test your connectivity and throughput. The Power, Activity and Link lights will initially come on. After the Sync light illuminates green your units are in sync and connectivity is established.

* Note: The innermost pins (3 & 4) are used for transport for both voice and data. The pins (3 & 4) are flipped in straight through cabling. If using the provided telephone patch cords, this flip is already performed. You can cut the RJ-11 head of each telephone patch cord and crimp on a RJ-45 head using the inside pins (4 & 5) to be able to attach to your existing CAT-5 Ethernet segment if needed.

If the Alarm light illuminates red, then the wiring between each 890 unit is not able to provide synchronization between each end. Items to check are reversed wire between the 890's, firm connection of telephone patch cord in each 890 unit and power applied and each 890 unit switched on. A DSL filter can clean up any noise on the line that may affect the data losing connection (RED Alarm light flickering) from time to time. Any standard DSL filter can clean up this interference to a degree and rectify this issue. Other possible interference can be attributed to Telco punchdown blocks acting as an antenna. If using telephone wiring, make sure there are no (0) Telco blocks in the wiring running from 890 to 890. Use Telco but clips to bridge around any Telco blocks.

- ❷ Once testing is completed, the remote 890 unit can be located to its permanent location. Insert the telephone patch cord into the Line port Insert into the back of the remote 890 unit and the other end into the wallplate connected to your remote pair of backbone wiring. You can also cut the head off the telephone patch cord and punch down the one pair on the Telco block for the remote pair of backbone wiring. Connect your remote end device to the Ethernet port of the remote 890 unit and power adapter. Perform the same operation on the primary 890 unit for connecting cabling and power to the unit. Make sure the backbone wiring pair (1-pair) match each other on each end of your connection. Power on all equipment and test your connectivity and throughput.
- ❸ For troubleshooting, first examine the backbone wiring pair and make sure you have solid connections. The Sync LED will be lit on each 890 unit to show proper connection and pairing. If the Sync LED is not lit, try swapping the order of the 1-pair backbone wiring at one end. If using a telephone wallplate jack, swap the pairs.

If the Alarm light illuminates red, then the wiring between each 890 unit is not able to provide synchronization between each end. Items to check are reversed wire between the 890's, firm connection of telephone patch cord in each 890 unit and power applied and each 890 unit switched on. A DSL filter can clean up any noise on the line that may affect the data losing connection (RED Alarm light flickering) from time to time. Any standard DSL filter can clean up this interference to a degree and rectify this issue. Other possible interference can be attributed to Telco punchdown blocks acting as an antenna. If using telephone wiring, make sure there are no (0) Telco blocks in the wiring running from 890 to 890. Use Telco but clips to bridge around any Telco blocks.

Technical Support

Enable-IT OEM Technical Support is available directly to customers and distributors. All support requests are processed through the online support portal. This allows us to provide assigned support ticket numbers in order to bring closure to any technical issues.

Online Technical Services

The Enable-IT Support Portal is available 24/7. No password or user account is necessary. Please use this support website as your first source for help as it contains an on line knowledge base of articles, documentation, FAQ's and other problem-solving resources. This web-based support resource provides the quickest solution to the most common technical support issues.

http://www.ethernetextender.com/support/support_overview.php

Returning Products for Warranty Repair

Enable-IT, Inc. warrants to the original purchaser of the Product ("you" or the "End User") that, for the one (1) year period commencing on the date the Product was purchased (the "Warranty Period"), the Product will be substantially free from defects in materials and workmanship under normal use and conditions. Electrical damage is not an item that is covered under this warranty or extended warranties. Optional two (2) year and three (3) year warranties are available to extend this coverage if purchased during the first year of coverage.

If authorized by Enable-IT to return a Product which does not conform to the warranty set forth above, the End User must: (1) obtain a return materials authorization (RMA) number from Enable-IT by contacting the Customer Service Dept. at 888-309-0910 between the hours of 8:00 a.m. and 5:00 p.m. PST and otherwise fully comply with Enable-IT's then-current RMA policy; (2) return the Product to Enable-IT, Inc. in its original packaging freight pre-paid; and (3) provide to Enable-IT the original receipt or bill of sale establishing the date on which the Product was purchased.

Please ship Authorized RMAs to:

Enable-IT Processing Facility
16600 Harbor Blvd, Ste G
Fountain Valley, CA 92708

Returning Products for Refund

30-Day refund applies to single kit Ethernet Extenders only and is subject to a 25% Restocking Fee. Shipments without valid / authorized RMA number or sent to our corporate Las Vegas Address can be refused and or billed for additional shipping.

ENABLE-IT LIMITED WARRANTY

Enable-IT warrants the Enable-IT 860 Extended Ethernet Kits solely pursuant to the following terms and conditions.

1. PRODUCT WARRANTY

a. Express Warranty Enable-IT warrants to the original purchaser of the Product ("you" or the "End User") that, for the one (1) year period commencing on the date the Product was purchased (the "Warranty Period"), the Product will be substantially free from defects in materials and workmanship under normal use and conditions. This warranty does not apply to Products which are resold as used, repaired or reconditioned or consumables (such as batteries) supplied with the Product. Enable-IT does not make any warranty with respect to any third party product, software or accessory supplied with or used in connection with the Product and such third party products, software and accessories, if any, are provided "AS IS." Warranty claims related to such third party products, software and accessories must be made to the applicable third party manufacturer.

b. Remedies for Breach of Warranty In the event of a breach of the foregoing warranty, Enable-IT will, in its sole discretion and at its cost and subject to the terms of the following paragraph, repair the non-conforming Product, replace the non-conforming Product with a new or reconditioned Product or refund of the purchase price for the Product. Any new or reconditioned Product provided pursuant to this paragraph is warranted as provided herein for the remainder of the original Warranty Period. THE REMEDY SET FORTH IN THIS PARAGRAPH SHALL BE THE END USER'S SOLE AND EXCLUSIVE REMEDY FOR BREACH OF THE FOREGOING WARRANTY.

c. Conditions for Warranty Qualification If authorized by Enable-IT to return a Product which does not conform to the warranty set forth above, the End User must: (1) obtain a return materials authorization (RMA) number from Enable-IT by contacting the Customer Service Dept. at 888-309-0910 between the hours of 8:00 a.m. and 5:00 p.m. PST and otherwise fully comply with Enable-IT's then-current RMA policy; (2) return the Product to Enable-IT in its original packaging freight pre-paid; and (3) provide to Enable-IT the original receipt or bill of sale establishing the date on which the Product was purchased.

Products returned to Enable-IT without an RMA number will be returned to the End User. Enable-IT shall not be responsible for damage or loss during shipment of the returned Product to Enable-IT.

d. Voiding of Warranty. The express warranty set forth above shall not apply to failure of the Product if the Product has been subjected to: (i) physical abuse, misuse, improper installation, abnormal use, power failure or surge, or use not consistent with the operating instructions provided by Enable-IT; (ii) modification (including but not limited to opening the Product housing) or repair by any party in any manner other than as approved by Enable-IT in writing; (iii) fraud, tampering, unusual physical or electrical stress, unsuitable operating or physical conditions, negligence or accidents; (iv) removal or alteration of the Product serial number tag; (v) improper packaging of Product returns; or (vi) damage during shipment (other than during the original shipment of the Product to the End User from Enable-IT, if applicable).

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